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16172

2 Hours / 50 Marks

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data, if necessary.
- (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. a) Attempt any THREE of the following: 12
- (i) Draw neat block diagram of flat bed scanner and explain its working.
- (ii) Compare LAN, WAN and MAN.
- (iii) Describe data encapsulation.
- (iv) Define cache memory. Explain different level of cache memory.
- b) Attempt any ONE of the following: 6
- (i) What is preventive maintenance? Give its importance. Explain different type of preventive maintenance.
- (ii) Draw RS - 232 signal interface and explain the signals.

P.T.O.

- 2. Attempt any FOUR of the following:** **16**
- a) Compare between OSI and TCP/IP reference model. (4 points)
 - b) List advantages of LCD monitor over CRT monitor.
 - c) Define:
 - (i) Blackout
 - (ii) Brownout
 - (iii) Surge
 - (iv) Spikes
 - d) Write fault finding and troubleshooting procedure of peripherals of PC.
 - e) State the meaning and functions of ARP and FTP.
 - f) Compare peer - to - peer N/W and client - server N/W.
- 3. Attempt any FOUR of the following:** **16**
- a) Compare TCP and UDP with respect to:
 - (i) Speed
 - (ii) Reliability
 - (iii) Acknowledgement
 - (iv) Security
 - b) With the help of diagram. Explain working of UPS.
 - c) Draw the construction of opto-mechanical mouse and explain its working.
 - d) What is network topology? Explain star and Ring topology with its advantage (any 2)
 - e) Explain working of CD - ROM drive.
 - f) List important features of routers used in Computer Network.
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